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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/716,149	11/17/2003	Chris Kiyoshi Togami	15436.249.42.1	5300
22913	7590	05/30/2006	EXAMINER	
WORKMAN NYDEGGER (F/K/A WORKMAN NYDEGGER & SEELEY) 60 EAST SOUTH TEMPLE 1000 EAGLE GATE TOWER SALT LAKE CITY, UT 84111			STEIN, JAMES D	
			ART UNIT	PAPER NUMBER
			2874	
DATE MAILED: 05/30/2006				

Please find below and/or attached an Office communication concerning this application or proceeding.

NA

<b>Office Action Summary</b>	<b>Application No.</b> 10/716,149	<b>Applicant(s)</b> TOGAMI ET AL.	
	<b>Examiner</b> James D. Stein	<b>Art Unit</b> 2874	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 14 March 2006.
- 2a) ☐ This action is **FINAL**.                      2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-29 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-14, 16-22 and 25-29 is/are rejected.
- 7) ☒ Claim(s) 15, 23 and 24 is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 17 November 2003 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All    b) ☐ Some \*    c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)  | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                                   | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)             |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)<br>Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____  |

## **DETAILED ACTION**

### ***Continued Examination Under 37 CFR 1.114***

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 03/14/06 has been entered. Claims 1, 2, 4, 7, 9, 10, 12, 13, 16-20, 23 and 25-27 are amended and new claims 28-39 are added. Claims 1-39 are now pending in view of the above amendments.

### ***Response to Arguments***

Applicant's arguments with respect to the claims have been considered but are moot in view of the new ground(s) of rejection.

The indicated allowability of claims 8, 11 and 13-27 is withdrawn in view of the amendments to the claims, and the newly discovered reference(s) to Ahrens. Rejections based on the newly cited reference(s) follow.

### ***Claim Rejections - 35 USC § 103***

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 1-14, 16-22 and 25-39 are rejected under 35 U.S.C. 103(a) as being obvious over [USPAT 6,789,958] to Ahrens et al. ("Ahrens") and further in view of [USPAT 6,305,848] to Gregory.

With regard to claims 1-14, 16-22 and 25-39, figs. 1, 4, and 9 show an optoelectronic module array system comprising a daughter card 130; a plurality of pluggable optoelectronic transceiver modules 400 that are removably connected to the daughter card 130; cages 160 (three sided) connected to the daughter card 130, and wherein cages 160 removably receive the transceiver modules 400. Moreover, fig. 1 of Ahrens shows that a connector receptacle 140 mounted on a surface of the daughter card 130 is used to removably receive a card edge connector 158 of the respective transceiver modules 150 through the cages 160. Additionally, a latching mechanism (figs. 5-8) including a lock pin 710 that engages a hole 170 formed in portion 170 of cage 160 (col. 2 lines 15-17). Said latching mechanism further includes a rotatable bail 460 pivotally attached to a pivot block 470 having said lock pin 710, wherein the lock pin 710 engages a portion X2 of the transceiver module array system 400 when the bail 460 and the pivot block 470 are positioned in a specified configuration (figs. 6A, 6B, 8A, 8B) to selectively secure the transceiver module 400. (at least col. 5 lines 54- col. 7 line 18). Each transceiver module 400 includes two ports 462 for receiving LC type duplex optical fiber connectors (col. 1 line 54), which are known to include a connector latch and a release sleeve (conventionally thermoplastic material) slidably engaged with the connector for connection/disconnection. The transceiver modules 400 are taught by Ahrens to be SFP transceivers (col. 1 line 25).

Therefore, the claimed invention has been disclosed and previously discussed above except for a plurality of such daughter boards 130 to be connected in parallel to a host board at an angle. Such mother/daughter card arrangements are painfully well known in the art, and are commonly used in communication devices to provide multiple channels. Fig. 2 of Gregory shows such an arrangement wherein a plurality of daughter cards 20 are connected to a host board 14 at an angle (90 degrees) and parallel one another. This arrangement provides high-density optoelectronic communication (abstract). Therefore, it would have been obvious at the time of the invention to one of ordinary skill in the art to place a plurality of such daughter cards 130 taught by Ahrens in a daughter/host board arrangement in order to facilitate high-density, multi-channel optoelectronic communications.

***Allowable Subject Matter***

Claims 15 and 23-24 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims. None of the cited prior art discloses or suggests the optoelectronic device previously claimed wherein the latching mechanism further includes two curved recesses that are defined in surfaces of the respective transceiver module to each movably receive an end portion of the bail; wherein the release sleeve is further comprises a body defining open first and second ends, wherein a portion of the body further defines a curved inner surface. It would not have been obvious to modify the prior art to achieve such a release sleeve as there is no suggestion in the prior art that such a modification would be advantageous in any way.

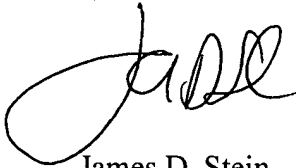
***Conclusion***

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure: [USPAT 6,851,867] to Pang et al. and [USPUB 2003/0021552] to Mitchell, which discloses related optoelectronic devices comprising a daughter card/cage arrangement.


Any inquiry concerning this communication or earlier communications from the examiner should be directed to James D. Stein whose telephone number is (571) 272-2132. The examiner can normally be reached on M-F (8:00am-4:30pm).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Rodney Bovernick can be reached on (571) 272-2344. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



James D. Stein  
Patent Examiner, AU 2874



SUNG PAK  
PRIMARY EXAMINER